

SAUMYA AGRAWAL

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EDUCATION

University of Illinois at Urbana-Champaign

Graduation: May 2022

Bachelor of Science, Computer Science and Statistics

GPA: 3.68

Minor: Microeconomics

Dean's List: Fall 2018

EXPERIENCE

Course Assistant, Data Science Exploration (STAT207)

August 2019 – Present

Statistics Department, University of Illinois at Urbana Champaign

- Holding laboratory hours twice a week to assist students in understanding **Python** and its **data tools**
- Clarifying doubts on theoretical statistical analysis
- Grading laboratory submissions, exams, and projects on a weekly basis for 15+ students

Research Assistant, Clancy Laboratory

January 2019 – May 2019

Researchers' Initiative, University of Illinois at Urbana Champaign

- Performed a **correlation study** on **multivariable datasets** collected on the different aspects of identity for Polish/Polish-American Women
- Organized and analysed data using **REDCAP** to make it more conducive and decipherable for research purposes

PROJECTS

Guess the Dialogue- PC Game

April 2019 – May 2019

- Program that accesses the **audio hardware** of the computer, allowing the user to play dialogues of popular cinema and predict their origin
- Designed and developed the program interface using **OpenFrameworks**, **C++** toolkit while practicing **test-driven development**

Lazy-Econ – Android App

November 2018 – December 2019

- **Mobile app** that applies principles of economic theory to model the effects of governmental policies on domestic markets, interest rates, and individual firms
- Developed UI functionalities including interactive graphs with Android Studio

Soybean Export – Regression Model

February 2019 – May 2019

- **Multifactor Regression** conducted in **Microsoft Excel** quantifying the **significant variables** which affected the export of Soybean from the United States in the last decade
- Model analysis for errors such as **multicollinearity**, **heteroskedasticity**, or **autocorrelated errors**, and thus creating a **reduced model**

SKILLS

Technical Skills: Git, C++, Java, Python, R, HTML/CSS, SQL

ACTIVITIES

- Member of the student organization **Girls Who Code** in which we **teach** middle school girls the basics of **web development**
- Member of the student organization **Women in Computer Science** (WCS)
- Member of the National Honor Societies: **Alpha Lambda Delta** and **Phi Eta Sigma**
- Qualified as a national level writer in creative writing in India

RELEVANT COURSE WORK

Data Structures, Software Design Studio, Introduction to Computer Science, Discrete Structures, Statistical Analysis, Economics Statistics, Intermediate Microeconomic Theory, Calculus III